Paul Tudzynski

List of Publications by Year
in descending order

128	10,223	41627	40945
papers	citations	51 h-index	97 g-index

131	131	131	7443
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Botrytis cinerea: the cause of grey mould disease. Molecular Plant Pathology, 2007, 8, 561-580.	2.0	1,345
2	Genomic Analysis of the Necrotrophic Fungal Pathogens Sclerotinia sclerotiorum and Botrytis cinerea. PLoS Genetics, 2011, 7, e1002230.	1.5	902
3	Reactive Oxygen Species in Phytopathogenic Fungi: Signaling, Development, and Disease. Annual Review of Phytopathology, 2011, 49, 369-390.	3.5	448
4	Plant-Symbiotic Fungi as Chemical Engineers: Multi-Genome Analysis of the Clavicipitaceae Reveals Dynamics of Alkaloid Loci. PLoS Genetics, 2013, 9, e1003323.	1.5	344
5	The Role of G Protein Alpha Subunits in the Infection Process of the Gray Mold Fungus Botrytis cinerea. Molecular Plant-Microbe Interactions, 2001, 14, 1293-1302.	1.4	241
6	NADPH Oxidases Are Involved in Differentiation and Pathogenicity in Botrytis cinerea. Molecular Plant-Microbe Interactions, 2008, 21, 808-819.	1.4	240
7	BcSAK1, a Stress-Activated Mitogen-Activated Protein Kinase, Is Involved in Vegetative Differentiation and Pathogenicity in Botrytis cinerea. Eukaryotic Cell, 2007, 6, 211-221.	3.4	213
8	Functional analysis of H2O2-generating systems in Botrytis cinerea: the major Cu-Zn-superoxide dismutase (BCSOD1) contributes to virulence on French bean, whereas a glucose oxidase (BCGOD1) is dispensable. Molecular Plant Pathology, 2004, 5, 17-27.	2.0	208
9	Functional Analysis of the Cytochrome P450 Monooxygenase Gene bcbot1 of Botrytis cinerea Indicates That Botrydial Is a Strain-Specific Virulence Factor. Molecular Plant-Microbe Interactions, 2005, 18, 602-612.	1.4	207
10	Polygalacturonase is a pathogenicity factor in the Claviceps purpurea/rye interaction. Fungal Genetics and Biology, 2002, 36, 176-186.	0.9	186
11	Chapter 2 Ergot Alkaloids â€“ Biology and Molecular Biology. The Alkaloids Chemistry and Biology, 2006, 63, 45-86.	0.8	184
12	Evidence for plasmid like DNA in a filamentous fungus, the ascomycete Podospora anserina. Molecular Genetics and Genomics, 1978, 162, 341-343.	2.4	177
13	Variations in ploidy among isolates of Botrytis cinerea: implications for genetic and molecular analyses. Current Genetics, 1994, 25, 445-450.	0.8	166
14	The P450 Monooxygenase BcABA1 Is Essential for Abscisic Acid Biosynthesis in Botrytis cinerea. Applied and Environmental Microbiology, 2004, 70, 3868-3876.	1.4	149
15	Does Botrytis cinerea Ignore H₂O₂-Induced Oxidative Stress During Infection? Characterization of Botrytis Activator Protein 1. Molecular Plant-Microbe Interactions, 2009, 22, 987-998.	1.4	148
16	Assessing the Effects of Light on Differentiation and Virulence of the Plant Pathogen Botrytis cinerea: Characterization of the White Collar Complex. PLoS ONE, 2013, 8, e84223.	1.1	135
17	Identification of an Abscisic Acid Gene Cluster in the Grey Mold Botrytis cinerea. Applied and Environmental Microbiology, 2006, 72, 4619-4626.	1.4	131
18	The Transcription Factor BcLTF1 Regulates Virulence and Light Responses in the Necrotrophic Plant Pathogen Botrytis cinerea. PLoS Genetics, 2014, 10, e1004040.	1.5	130

#	Article	IF	Citations
19	Ergot: from witchcraft to biotechnology. Molecular Plant Pathology, 2009, 10, 563-577.	2.0	124
20	The ergot alkaloid gene cluster in Claviceps purpurea: Extension of the cluster sequence and intra species evolution. Phytochemistry, 2005, 66, 1312-1320.	1.4	122
21	Infection Strategies of Botrytis cinerea and Related Necrotrophic Pathogens. , 2000, , 33-64.		115
22	Reactive oxygen species generation in fungal development and pathogenesis. Current Opinion in Microbiology, 2012, 15, 653-659.	2.3	112
23	Biosynthetic Pathways of Ergot Alkaloids. Toxins, 2014, 6, 3281-3295.	1.5	106
24	The cAMP-Dependent Signaling Pathway and Its Role in Conidial Germination, Growth, and Virulence of the Gray Mold Botrytis cinerea. Molecular Plant-Microbe Interactions, 2008, 21, 1443-1459.	1.4	103
25	Molecular Cloning and Analysis of the Ergopeptine Assembly System in the Ergot Fungus Claviceps purpurea. Chemistry and Biology, 2003, 10, 1281-1292.	6.2	99
26	CPMK2, an SLT2-homologous mitogen-activated protein (MAP) kinase, is essential for pathogenesis ofClaviceps purpureaon rye: evidence for a second conserved pathogenesis-related MAP kinase cascade in phytopathogenic fungi. Molecular Microbiology, 2002, 46, 305-318.	1.2	98
27	Ethylene Sensing and Gene Activation in Botrytis cinerea: A Missing Link in Ethylene Regulation of Fungus-Plant Interactions?. Molecular Plant-Microbe Interactions, 2006, 19, 33-42.	1.4	97
28	Title is missing!. European Journal of Plant Pathology, 1999, 105, 273-283.	0.8	95
29	Claviceps purpurea: molecular aspects of a unique pathogenic lifestyle. Molecular Plant Pathology, 2004, 5, 377-388.	2.0	92
30	The NADPH oxidase Cpnox1 is required for full pathogenicity of the ergot fungus Claviceps purpurea. Molecular Plant Pathology, 2008, 9, 317-327.	2.0	89
31	The linear mitochondrial plasmid pCIK1 of the phytopathogenic fungus Claviceps purpurea may code for a DNA polymerase and an RNA polymerase. Molecular Genetics and Genomics, 1989, 217, 132-140.	2.4	87
32	Chromosomal and extrachromosomal control of senescence in the ascomycete Podospora anserina. Molecular Genetics and Genomics, 1979, 173, 71-84.	2.4	86
33	The Botrytis cinerea Reg1 Protein, a Putative Transcriptional Regulator, Is Required for Pathogenicity, Conidiogenesis, and the Production of Secondary Metabolites. Molecular Plant-Microbe Interactions, 2011, 24, 1074-1085.	1.4	85
34	BcAtf1, a global regulator, controls various differentiation processes and phytotoxin production in Botrytis cinerea. Molecular Plant Pathology, 2012, 13, 704-718.	2.0	85
35	The small GTPase Rac and the p21â€activated kinase Cla4 in Claviceps purpurea: interaction and impact on polarity, development and pathogenicity. Molecular Microbiology, 2008, 68, 405-423.	1.2	84
36	Germling fusion via conidial anastomosis tubes in the grey mould Botrytis cinerea requires NADPH oxidase activity. Fungal Biology, 2012, 116, 379-387.	1.1	82

#	Article	IF	Citations
37	Redox Systems in Botrytis cinerea: Impact on Development and Virulence. Molecular Plant-Microbe Interactions, 2014, 27, 858-874.	1.4	80
38	CPTF1, a CREB-Like Transcription Factor, Is Involved in the Oxidative Stress Response in the Phytopathogen Claviceps purpurea and Modulates ROS Level in Its Host Secale cereale. Molecular Plant-Microbe Interactions, 2004, 17, 383-393.	1.4	78
39	The Mitogen-Activated Protein Kinase BcSak1 of Botrytis cinerea Is Required for Pathogenic Development and Has Broad Regulatory Functions Beyond Stress Response. Molecular Plant-Microbe Interactions, 2012, 25, 802-816.	1.4	77
40	The NADPH Oxidase Complexes in Botrytis cinerea: Evidence for a Close Association with the ER and the Tetraspanin Pls1. PLoS ONE, 2013, 8, e55879.	1.1	75
41	De novo biosynthesis of cytokinins in the biotrophic fungus <scp>C</scp>laviceps purpurea. Environmental Microbiology, 2015, 17, 2935-2951.	1.8	74
42	Reactive oxygen species in development and infection processes. Seminars in Cell and Developmental Biology, 2016, 57, 138-146.	2.3	74
43	Involvement of Botrytis cinerea Small GTPases BcRAS1 and BcRAC in Differentiation, Virulence, and the Cell Cycle. Eukaryotic Cell, 2013, 12, 1609-1618.	3.4	73
44	Use of a nonhomologous end joining deficient strain (Î”ku70) of the ergot fungus Claviceps purpurea for identification of a nonribosomal peptide synthetase gene involved in ergotamine biosynthesis. Fungal Genetics and Biology, 2008, 45, 35-44.	0.9	72
45	<scp>BcNoxD</scp>, a putative <scp>ER</scp> protein, is a new component of the <scp>NADPH</scp> oxidase complex in <scp>B</scp>otrytis cinerea. Molecular Microbiology, 2015, 95, 988-1005.	1.2	71
46	The Xylanolytic System of Claviceps purpurea: Cytological Evidence for Secretion of Xylanases in Infected Rye Tissue and Molecular Characterization of Two Xylanase Genes. Phytopathology, 1998, 88, 1020-1030.	1.1	69
47	The ergot alkaloid gene cluster: Functional analyses and evolutionary aspects. Phytochemistry, 2009, 70, 1822-1832.	1.4	69
48	The Contribution of Cell Wall Degrading Enzymes to Pathogenesis of Fungal Plant Pathogens. , 2002, , 341-358.		68
49	Extrachromosomal genetics of Claviceps purpurea. Current Genetics, 1983, 7, 145-150.	0.8	60
50	Identification of the Cytochrome P450 Monooxygenase that Bridges the Clavine and Ergoline Alkaloid Pathways. ChemBioChem, 2006, 7, 645-652.	1.3	59
51	Cloning, Characterization, and Targeted Disruption of cpcat1, Coding for an in Planta Secreted Catalase of Claviceps purpurea. Molecular Plant-Microbe Interactions, 1998, 11, 772-783.	1.4	58
52	Comparison of Ergot Alkaloid Biosynthesis Gene Clusters in Claviceps Species Indicates Loss of Late Pathway Steps in Evolution of C. fusiformis. Applied and Environmental Microbiology, 2007, 73, 7185-7191.	1.4	54
53	A CDC42 Homologue in Claviceps purpurea Is Involved in Vegetative Differentiation and Is Essential for Pathogenicity. Eukaryotic Cell, 2005, 4, 1228-1238.	3.4	53
54	Inhibitors of mitochondrial function prevent senescence in the ascomycetePodospora anserina. Molecular Genetics and Genomics, 1977, 153, 111-113.	2.4	51

#	Article	IF	Citations
55	The major Cu,Zn SOD of the phytopathogen Claviceps purpurea is not essential for pathogenicity. Molecular Plant Pathology, 2002, 3, 9-22.	2.0	50
56	Alkaloid Cluster Gene ccsA of the Ergot Fungus Claviceps purpurea Encodes Chanoclavine I Synthase, a Flavin Adenine Dinucleotide-Containing Oxidoreductase Mediating the Transformation of N -Methyl-Dimethylallyltryptophan to Chanoclavine I. Applied and Environmental Microbiology, 2010, 76, 1822-1830.	1.4	49
57	Efficient transformation of Claviceps purpurea using pyrimidine auxotrophic mutants: cloning of the OMP decarboxylase gene. Molecular Genetics and Genomics, 1992, 234, 297-305.	2.4	48
58	The small GTPase BcCdc42 affects nuclear division, germination and virulence of the gray mold fungus Botrytis cinerea. Fungal Genetics and Biology, 2011, 48, 1012-1019.	0.9	48
59	Structural and functional analysis of mitochondrial plasmids in Claviceps purpurea. Molecular Genetics and Genomics, 1988, 214, 128-134.	2.4	47
60	Analysis of genetic diversity in Claviceps purpurea by RAPD markers. Mycological Research, 1997, 101, 1-6.	2.5	45
61	Functional characterization of the first filamentous fungal <scp>tRNA</scp>â€isopentenyltransferase and its role in the virulence of Claviceps purpurea. New Phytologist, 2016, 211, 980-992.	3.5	45
62	The Claviceps purpurea glyceraldehyde-3-phosphate dehydrogenase gene: cloning, characterization, and use for the improvement of a dominant selection system. Current Genetics, 1994, 25, 101-106.	0.8	44
63	Molecular analysis of the early interaction between the grapevine flower and <scp>Botrytis cinerea</scp> reveals that prompt activation of specific host pathways leads to fungus quiescence. Plant, Cell and Environment, 2017, 40, 1409-1428.	2.8	44
64	Extrachromosomal genetics of Claviceps purpurea. Current Genetics, 1986, 10, 463-467.	0.8	42
65	Regulation of Pathogenic Spore Germination by CgRac1 in the Fungal Plant Pathogen Colletotrichum gloeosporioides. Eukaryotic Cell, 2011, 10, 1122-1130.	3.4	41
66	Identification and characterization of a tri-partite hydrophobin from Claviceps fusiformis . A novel type of class II hydrophobin. FEBS Journal, 1999, 262, 377-385.	0.2	38
67	The Protein Disulfide Isomerase of Botrytis cinerea: An ER Protein Involved in Protein Folding and Redox Homeostasis Influences NADPH Oxidase Signaling Processes. Frontiers in Microbiology, 2017, 8, 960.	1.5	37
68	Extrachromosomal genetics of Cephalosporium acremonium. Current Genetics, 1982, 6, 153-158.	0.8	36
69	Deletion of Mid1, a putative stretch-activated calcium channel in Claviceps purpurea, affects vegetative growth, cell wall synthesis and virulence. Microbiology (United Kingdom), 2009, 155, 3922-3933.	0.7	34
70	Functional Analysis of BcBem1 and Its Interaction Partners in Botrytis cinerea: Impact on Differentiation and Virulence. PLoS ONE, 2014, 9, e95172.	1.1	34
71	Unraveling the Function of the Response Regulator BcSkn7 in the Stress Signaling Network of Botrytis cinerea. Eukaryotic Cell, 2015, 14, 636-651.	3.4	34
72	Cel1, Probably Encoding a Cellobiohydrolase Lacking the Substrate Binding Domain, Is Expressed in the Initial Infection Phase of Claviceps purpurea on Secale cereale. Molecular Plant-Microbe Interactions, 1997, 10, 268-279.	1.4	33

#	Article	IF	Citations
73	A model to explain senescence in the filamentous fungus Podospora anserina by the action of plasmid like DNA. Molecular Genetics and Genomics, 1980, 178, 213-216.	2.4	32
74	Development of a eukaryotic cloning system in Podospora anserina. Current Genetics, 1982, 6, 219-222.	0.8	32
75	Redoxâ€sensitive GFP2: use of the genetically encoded biosensor of the redox status in the filamentous fungus Botrytis cinerea. Molecular Plant Pathology, 2012, 13, 935-947.	2.0	32
76	Molecular Characterization of the NADPH Oxidase Complex in the Ergot Fungus Claviceps purpurea: CpNox2 and CpPls1 Are Important for a Balanced Host-Pathogen Interaction. Molecular Plant-Microbe Interactions, 2013, 26, 1151-1164.	1.4	32
77	Transformation of Claviceps purpurea using a bleomycin resistance gene. Applied Microbiology and Biotechnology, 1989, 30, 364-370.	1.7	31
78	The COT1 homologue CPCOT1 regulates polar growth and branching and is essential for pathogenicity in Claviceps purpurea. Fungal Genetics and Biology, 2005, 42, 107-118.	0.9	29
79	Bclqg1, a fungal IQGAP homolog, interacts with NADPH oxidase, MAP kinase and calcium signaling proteins and regulates virulence and development in <scp>B</scp>otrytis cinerea. Molecular Microbiology, 2016, 101, 281-298.	1.2	29
80	Identification and characterization of the ergochrome gene cluster in the plant pathogenic fungus Claviceps purpurea. Fungal Biology and Biotechnology, 2016, 3, 2.	2.5	28
81	Ethylene biosynthesis in Botrytis cinerea. FEMS Microbiology Ecology, 2002, 40, 143-149.	1.3	25
82	Phytohormones In Botrytis-Plant Interactions. , 2007, , 163-179.		25
83	The histidine kinase CpHK2 has impact on spore germination, oxidative stress and fungicide resistance, and virulence of the ergot fungus Claviceps purpurea. Molecular Plant Pathology, 2007, 8, 653-665.	2.0	24
84	Morphogenesis and Infection in Botrytis cinerea. Topics in Current Genetics, 2012, , 225-241.	0.7	24
85	Transcripts and translation products of a mitochondrial plasmid of Claviceps purpurea. Current Genetics, 1992, 21, 249-254.	0.8	23
86	The putative H3K36 demethylase BcKDM1 affects virulence, stress responses and photomorphogenesis in Botrytis cinerea. Fungal Genetics and Biology, 2019, 123, 14-24.	0.9	23
87	In vitro pathogenicity assay for the ergot fungus Claviceps purpurea. Mycological Research, 2006, 110, 465-470.	2.5	22
88	The FRP1 Fâ€box gene has different functions in sexuality, pathogenicity and metabolism in three fungal pathogens. Molecular Plant Pathology, 2011, 12, 548-563.	2.0	22
89	Manipulation of cytokinin level in the ergot fungus Claviceps purpurea emphasizes its contribution to virulence. Current Genetics, 2018, 64, 1303-1319.	0.8	22
90	Update on Nox function, site of action and regulation in Botrytis cinerea. Fungal Biology and Biotechnology, 2016, 3, 8.	2.5	21

#	Article	IF	Citations
91	Interaction between mitochondrial DNA and mitochondrial plasmids in Claviceps purpurea: analysis of plasmid-homologous sequences upstream of the lrRNA-gene. Current Genetics, 1993, 23, 315-322.	0.8	20
92	Botrytis cinerea: Molecular Aspects of a Necrotrophic Life Style. , 2009, , 29-50.		20
93	Claviceps sp. PRL 1980 (ATCC 26245), 59 and Pepty 695/ch-I: their true story. Mycological Research, 1999, 103, 1044-1048.	2.5	19
94	A new and reliable method for live imaging and quantification of reactive oxygen species in Botrytis cinerea. Fungal Genetics and Biology, 2014, 71, 68-75.	0.9	19
95	Cross-talk of the biotrophic pathogen Claviceps purpurea and its host Secale cereale. BMC Genomics, 2017, 18, 273.	1.2	19
96	Fungal Pathogenicity Genes. Applied Mycology and Biotechnology, 2003, , 187-212.	0.3	18
97	Characterization of an extracellular Î²-1,3-glucanase of Claviceps purpurea. Physiological and Molecular Plant Pathology, 1992, 40, 191-201.	1.3	17
98	Structural and functional analysis of an oligomeric hydrophobin gene from Claviceps purpurea. Molecular Plant Pathology, 2003, 4, 31-41.	2.0	17
99	Small-GTPase-Associated Signaling by the Guanine Nucleotide Exchange Factors CpDock180 and CpCdc24, the GTPase Effector CpSte20, and the Scaffold Protein CpBem1 in Claviceps purpurea. Eukaryotic Cell, 2014, 13, 470-482.	3.4	16
100	Chasing stress signals â€“ Exposure to extracellular stimuli differentially affects the redox state of cell compartments in the wild type and signaling mutants of Botrytis cinerea. Fungal Genetics and Biology, 2016, 90, 12-22.	0.9	16
101	Immunogold localization of an extracellular Î²-1,3-glucanase of the ergot fungus Claviceps purpurea during infection of rye. Mycological Research, 1999, 103, 1103-1118.	2.5	15
102	A DNA-polymerase-related reading frame (pol-r) in the mtDNA ofSecale cereale. Current Genetics, 1994, 25, 59-65.	0.8	14
103	Nuclear association in yeast of a hybrid vector containing mitochondrial DNA. Current Genetics, 1983, 7, 165-166.	0.8	12
104	Genetics of Plant Pathogenic Fungi. Progress in Botany Fortschritte Der Botanik, 1998, , 169-193.	0.1	10
105	Mitochondrial DNA for Gene Cloning in Eukaryotes. , 1985, , 403-416.		10
106	Localization of ergot alkaloids in sclerotia of Claviceps purpurea by matrix-assisted laser desorption/ionization mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2017, 409, 1221-1230.	1.9	9
107	Extrakaryotic Inheritance: Mitochondrial Genetics. , 1986, , 249-259.		9
108	The Epipolythiodiketopiperazine Gene Cluster in Claviceps purpurea: Dysfunctional Cytochrome P450 Enzyme Prevents Formation of the Previously Unknown Clapurines. PLoS ONE, 2016, 11, e0158945.	1.1	9

#	Article	IF	Citations
109	Approaches to Molecular Genetics and Genomics of Botrytis. , 2007, , 53-66.		8
110	Expressed sequence tags from the flower pathogen Claviceps purpurea. Molecular Plant Pathology, 2009, 10, 665-684.	2.0	8
111	Ergot Alkaloids. Fungal Biology, 2014, , 303-316.	0.3	8
112	Brachypodium distachyon as alternative model host system for the ergot fungus Claviceps purpurea. Molecular Plant Pathology, 2018, 19, 1005-1011.	2.0	8
113	Mitochondrial DNA and senescence in Podospora anserina. Current Genetics, 1981, 4, 83-83.	0.8	7
114	Studies on function and mobility of mitochondrial plasmids from Claviceps purpurea. Mycological Research, 1994, 98, 511-515.	2.5	6
115	Genetics of Phytopathology: Pathogenicity Factors and Signal Transduction in Plant-pathogenic Fungi. Progress in Botany Fortschritte Der Botanik, 2002, , 163-188.	0.1	5
116	Extranuclear Inheritance: Mitochondrial Genetics. , 1991, , 244-263.		4
117	Molecular Aspects of Hostâ€“Pathogen Interactions and Ergot Alkaloid Biosynthesis in Claviceps. , 2003, , .		4
118	Linear Plasmids in the Phytopathogenic Fungus Claviceps Purpurea. , 1986, , 119-127.		3
119	Genetics of Phytopathology: Phytopathogenic Fungi: Genetic Aspects of Host-Pathogen Interaction. Progress in Botany Fortschritte Der Botanik, 2000, , 118-147.	0.1	3
120	Extrachromosomal genetics of Cephalosporium acremonium. Applied Microbiology and Biotechnology, 1986, 23, 280.	1.7	2
121	Pathogenic Development of Claviceps purpurea. , 2002, , .		2
122	Genetics of Phytopathogenic Fungi. , 1996, , 235-252.		2
123	Molecular genetics of pathogenic fungi: new horizons. Trends in Microbiology, 1994, 2, 429-430.	3.5	1
124	Molecular Genetics of Phytopathogenic Fungi. , 1993, , 358-372.		1
125	NUCLEAR-MITOCHONDRIAL INTERACTIONS CAUSE SENESCENCE IN THE FILAMENTOUS FUNGUS PODOSPORA ANSERINA. , 1983, , 251-258.		0
126	Extrakaryotic Inheritance. , 1980, , 214-233.		0

#	Article	IF	Citations
127	Extranuclear Inheritance. , 1982, , 286-307.		0
128	A BACTERIAL-MITOCHONDRIAL â€œSHUTTLE VECTORâ€•FOR CLONING IN PRO- AND EUKARYOTES. , 1983, , 566.		0